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EXAMINER

MILORD, M

ART UNIT

PAPER NUMBER

2683

DATE MAILED:

06/19/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/536,599

Applicant(s)

Kuo et al.

Examiner

Marceau Milord

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Mar 28, 2000

2a) ☐ This action is FINAL.

2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-9 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-9 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☐ All b) ☐ Some* c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) ☒ Notice of References Cited (PTO-892)

18) ☐ Interview Summary (PTO-413) Paper No(s). _____

16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

19) ☐ Notice of Informal Patent Application (PTO-152)

17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____

20) ☐ Other:

Art Unit: 2683

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1- 4, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garney et al. (US Patent No 5890015) in view of Watson et al. (US Patent No 56040792).

Regarding claim 1, Garney et al. discloses a USB-based wireless transmitting/receiving system (figs. 2- 4; figs. 5- 8) comprising: a transmitting portion (530 of figs. 5 - 6 where the transceiver unit 530 operates to transmit and receive data to and from a transceiver unit in wireless remote module 422 ; col. 5, lines 1- 66) adapted to be connected to at least one USB-based peripheral device (313-315 of fig. 3 ; col. 4, lines 38- 65) for receiving a signal from the peripheral device (col. 4, lines 1- 66) ; a receiving portion (530 of figs. 5 - 6) adapted to be connected to a computer host (240 of figs. 2 - 3 ; 520 and 640 of figs. 5- 6) and coupled to the transmitting portion in a wireless fashion for receiving and applying the signal (col. 5, lines 30- 66) from the transmitting portion to the computer host whereby a wireless communication is established between the computer host (240 of figs. 2 - 3 ; 520 and 640 of figs. 5- 6) and the USB-based peripheral device (figs. 2- 4; figs. 5-7 ; col. 3, line 6- col. 4, line 65 ; col. 6, lines 3-

Art Unit: 2683

65). However, Garney does not specifically disclose the feature of receiving portion connected to a computer host and coupled to the transmitting portion and applying the signal (col. 5, lines 30-66) from the transmitting portion to the computer host. On the other hand, Watson et al, from the same field of endeavor, discloses a serial parallel port signal converter for interconnection between a host utilizing uniform serial bus communications protocols and a peripheral device using IEEE 1284 compliant communications protocol. This signal converter acts as a fully compliant bi-directional USB device receiving USB data packets and retransmitting that data to the attached peripheral device transparently as if it were a IEEE 1284 host (col. 2, line 36- col. 3, line 46; col. 5, line 10 - col. 6, line 67; col. 9, line 1- col. 10, line 31). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate this signal converter of Watson into the system of Garney in order to provide a wireless connection between a computer host and a peripheral device, and allow high speed data transmission.

Regarding claims 2-3, Garney et al as modified discloses a USB-based wireless transmitting/receiving system (figs. 2-4; figs. 5- 8) wherein the wireless coupling between the transmitting portion and the receiving portion comprises infrared transmission and radio frequency transmission (figs. 4- 6; col. 5, line 18- col. 6, line 65).

Regarding claims 4 and 7, Garney et al as modified discloses a USB-based wireless transmitting/receiving system (figs. 4-6) wherein the transmitting portion comprises a central

Art Unit: 2683

processing unit (210 of fig. 2 ; col. 2, lines 50- 67) to which a transmitting unit and a receiving unit (530 of figs. 5 - 6 where the transceiver unit 530 operates to transmit and receive data to and from a transceiver unit in wireless remote module 422 ; col. 5, lines 1- 66) are connected and a power supply system for powering the central processing unit (figs. 2- 4; figs. 7-8; col. 3, line 6- col. 4, line 65 ; col. 6, lines 3- 65).

3. Claims 5-6, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Garney et al. (US Patent No 5890015) in view of Watson et al. (US Patent No 56040792) as applied to claims 1- 4, 7 above, and further in view of Bokhorst et al. (6192230 B1).

Regarding claims 5 and 8, Garney and Watson disclose everything claimed as explained above such as a USB-based wireless transmitting/receiving system for receiving and applying the signal from the transmitting portion but do not specifically disclose a power supply system comprising a controller to which a primary power source and an auxiliary power source are connected whereby the controller selectively supplies power from the primary power source and the auxiliary power source to the central processing unit. However, Bokhorst et al shows in figures 2 and 9, a mobile station 20 that is battery powered, and includes a battery power source 40 connected to a power line 42, which supplies power to the components of the mobile station 20 ; the power line 42 is connected to supply continuous power to the processor 34, memory and other devices. Furthermore, power is supplied to the wireless transceiver 30 via a switch 44 which operates under control of a doze timer 46 and power management circuit 47 as claimed

Art Unit: 2683

(col. 3, line 13- col. 4, line 36; col. 7, lines 15- 64). Note that the power line 42 is also connected to a built-in battery which can be storage battery, such as dry battery, rechargeable battery or solar battery, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the power saving technique of Bokhorst to the modified system of Garney and Watson in order to provide an enhanced performance in the communication system, and allow high speed data transmission.

Regarding claims 6 and 9, note column 7, line 15- col. 8, line 65 of Bokhorst.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thomson US Patent No 6073205 discloses an apparatus and method for write posting in a universal serial bus system including a host computer connected to USB devices via a USB.

Gulick US Patent No 5914877 discloses a USB based microphone system.

Ban et al US Patent No 6148354 discloses a storage unit made of flash array and a USB controller which is implemented to be compatible with USB specification.

Thomson US Patent No 6206480 B1 discloses a mobile computing and communication system.

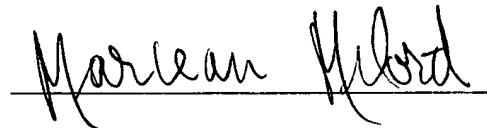
Art Unit: 2683

Gulick US Patent No 6122749 discloses a controller for a powered loudspeaker for use in a computer system including a bus monitor configured to monitor a bus and a power management control unit coupled to the bus monitor.

Itamochi US Patent No 6154663 discloses a portable telephone communications system.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marceau Milord whose telephone number is (703) 306-3023. The examiner can normally be reached on Monday through Thursday from 7:30 A.M. to 6:00 P.M.



MARCEAU MILORD

June 7, 2001

Lee Nguyen
Primary Examiner

